

## Fortitude

by Arya Akhavan (July 2014)

Angles for R.I. = 1.540

64 + 16 girdles = 80 facets

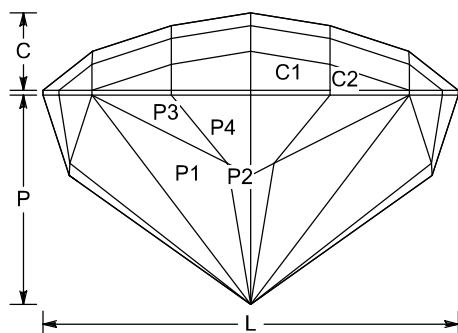
4-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.504 C/W = 0.187

Vol./W<sup>3</sup> = 0.245



### PAVILION

P1	43.00°	11-13-35-37-59-61-83-85	Cut to centerpoint.
P2	41.83°	10-14-34-38-58-62-82-86	Meet at culet.
G1	90.00°	06-18-30-42-54-66-78-90	Set stone size.
P3	65.00°	06-18-30-42-54-66-78-90	Level girdle.
P4	72.21°	03-21-27-45-51-69-75-93	Meet P1, P2, P3
G2	90.00°	03-21-27-45-51-69-75-93	Level girdle.

### CROWN

C1	38.78°	03-21-27-45-51-69-75-93	Set girdle width.
C2	40.46°	06-18-30-42-54-66-78-90	Level girdle.
C3	24.78°	12-36-60-84	Meet G1, C2
C4	20.00°	07-17-31-41-55-65-79-89	Meet C1, C2, C3
C5	12.83°	12-36-60-84	Meet C3, C4

This design was written for Jordan Wilkins, who had a dark iron-bearing garnet that needed a square cushion. The P1 and P2 facets are close in index and angle by design so that they function more like a single, large, flat reflector facet, which lightens dark garnets with "flash". P2 cuts very quickly, so be careful. Works in materials from quartz to CZ (RI = 1.54 - 2.16) with no changes.

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